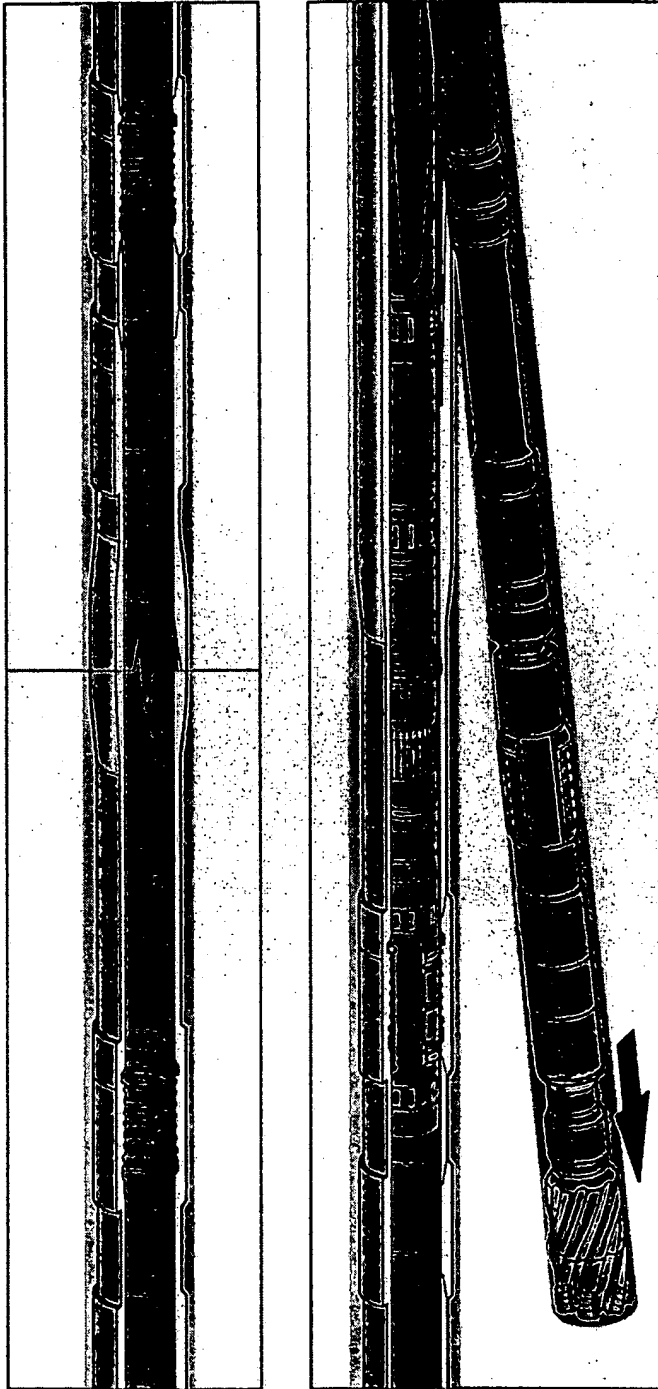


Sperry-Sun Latch Coupling



HAL7934

Application

The latch coupling is the heart of Sperry-Sun's multilateral systems. It serves a vital role in multilateral applications by providing a consistent, repeatable platform for the depth and orientation of multilateral equipment. It also provides full-bore, unrestricted casing access to the lower mainbore. The latch device maintains casing pressure integrity. This allows the well to be completed and produced in any manner, while maintaining the option of drilling an additional lateral bore at a later date. Installing the Sperry-Sun latch coupling in the casing string is an inexpensive way to plan for future multilateral applications. The latch couplings can be installed above or below existing lateral bores to provide access to virtually any productive interval of the reservoir. Existing casing strings can also take advantage of the benefits of a latch coupling by incorporating it with an anchor packer. The access to the mainbore below the latch coupling is still maintained with one casing ID-reduction. This type of application is commonly used with the RDS™ re-entry drilling system, in which the latch coupling is set on a packer assembly.

Features

- Full-bore ID access in the mainbore
- Lock and key design, which provides a platform for accurate axial and azimuthal placement
- Repeatability at landing depth and precise orientation of retrievable whipstocks
- Full casing burst and collapse specifications

Benefits

- Planning of future laterals at any time during the life of the well
- Compatible with most Sperry-Sun multilateral technology
- Compatible with any casing string and installed in the same manner as a standard casing collar
- Meets burst and collapse pressure requirements while not restricting the ID of the mainbore
- Works in both new and existing well applications

Multilateral Services *Specifications* BEST AVAILABLE COPY

Sperry-Sun Latch Coupling



New Well



Latch Coupling
and PPH Packer
Re-entry

Typical Installation Sequence

- Select the liner joint to which the latch coupling is to be made up, spaced out for potential future lateral.
- Do not run centralization on the joint above and below the latch coupling.
- Threadlock the latch coupling to the joint above.
- Torque the thread to vendor's thread makeup specification.
- Make up joint to previous joint and run in hole as per liner tally.
- Cement liner as per program.
- Record depth of coupling for future reference.

Latch Coupling Specifications

| Casing size | 5-1/2 in. 139.7 mm | 7 in. 177.8 mm | 7-5/8 in. 193.7 mm | 9-5/8 in. 244.5 mm | 10-3/4 in. 273 mm | 13-3/8 in. 339.7 mm |
|----------------|-----------------------|-------------------|-----------------------|-----------------------|----------------------|------------------------|
| Casing weight | 15.5 lb/ft | 29 lb/ft | 39 lb/ft | 47 lb/ft | 60.7 lb/ft | 68 lb/ft |
| Material grade | L-80 or 13% Cr | | | | | |

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